

Presentation by Roland Bunch

Under Our Feet
Why Soils Hold the Key for Food Security and
Climate Change Adaptation

March 3, 2016

Panel organized by Catholic Relief Services



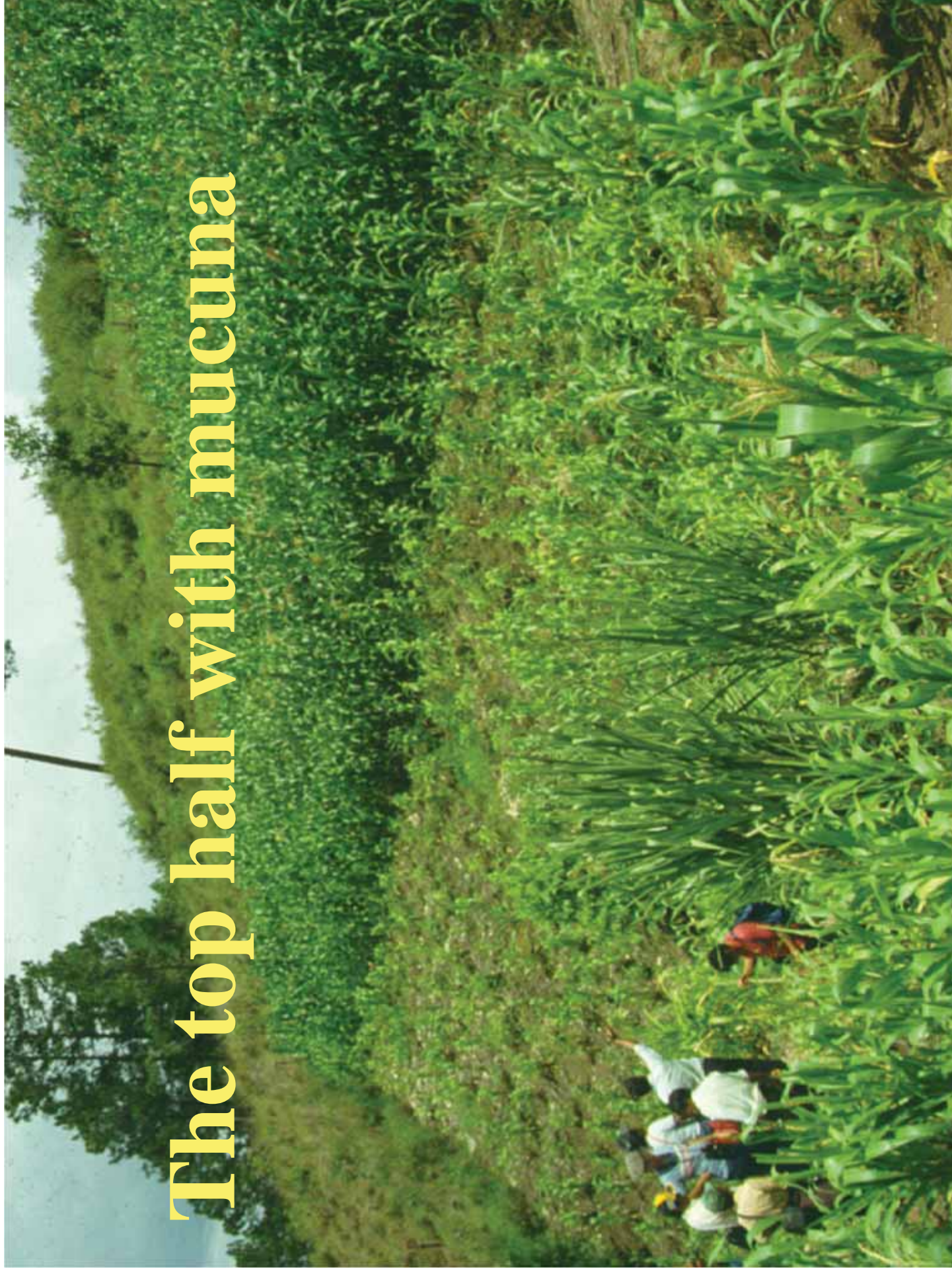
1982



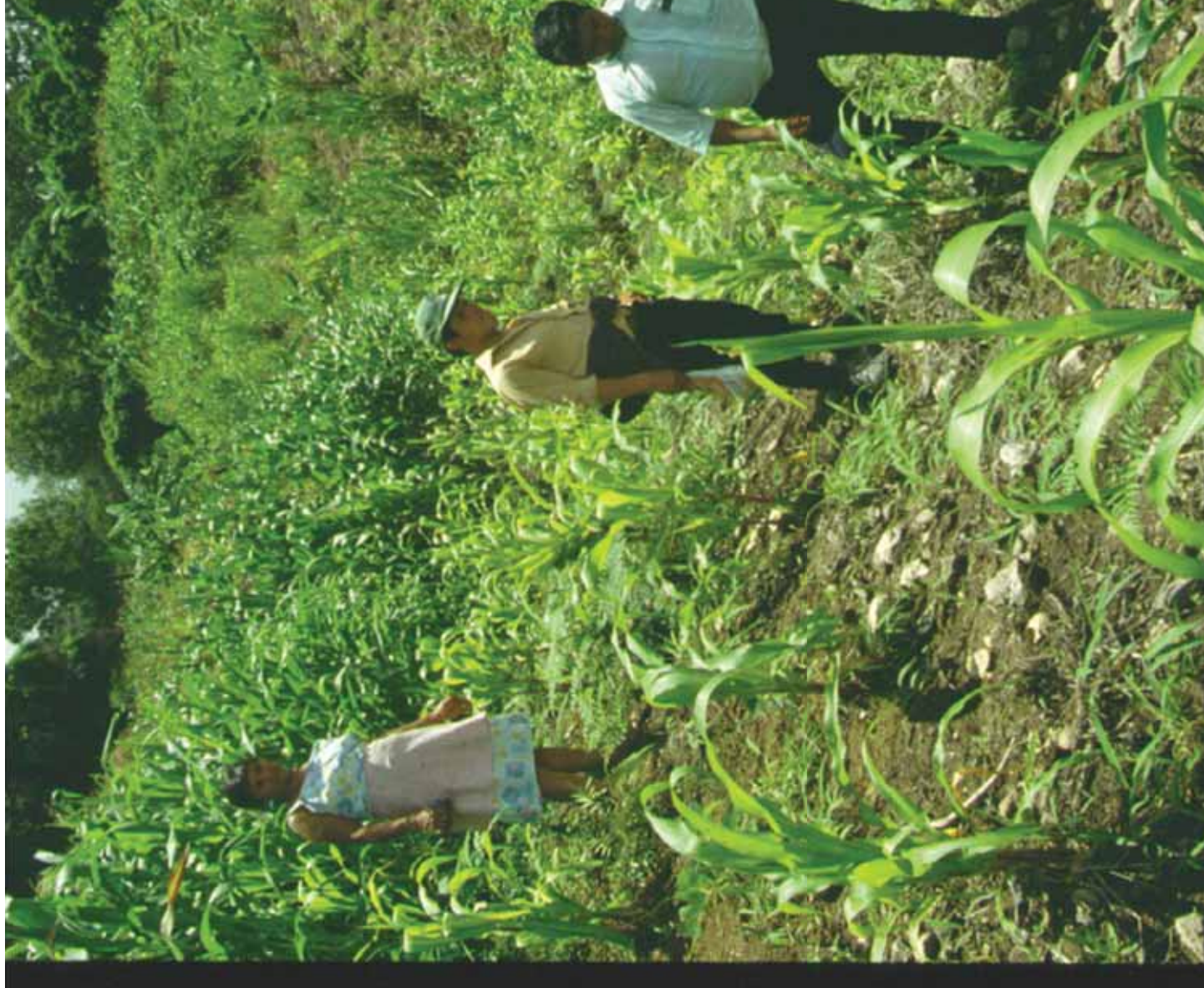
1983

**Near
Guinope,
Honduras**

The top half with mucuna



A closer look





Conrado's experiment

**Green manure/
cover crops
(gm/ccs):**

- 1) Inexpensive**
- 2) Labor costs
range from low
to negative**
- 3) Effective**
- 4) 60 + species,
100 + systems**

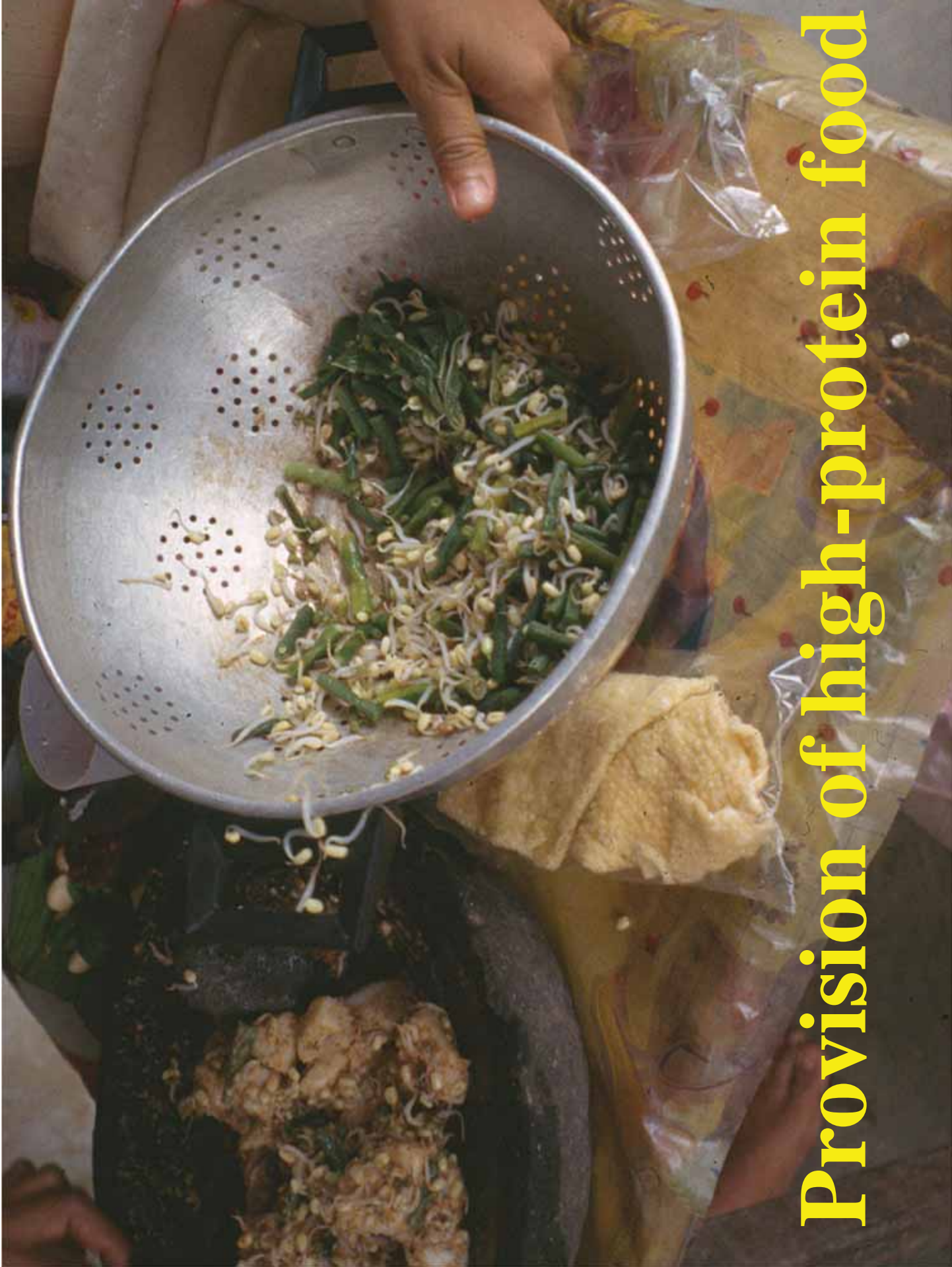


Weed control

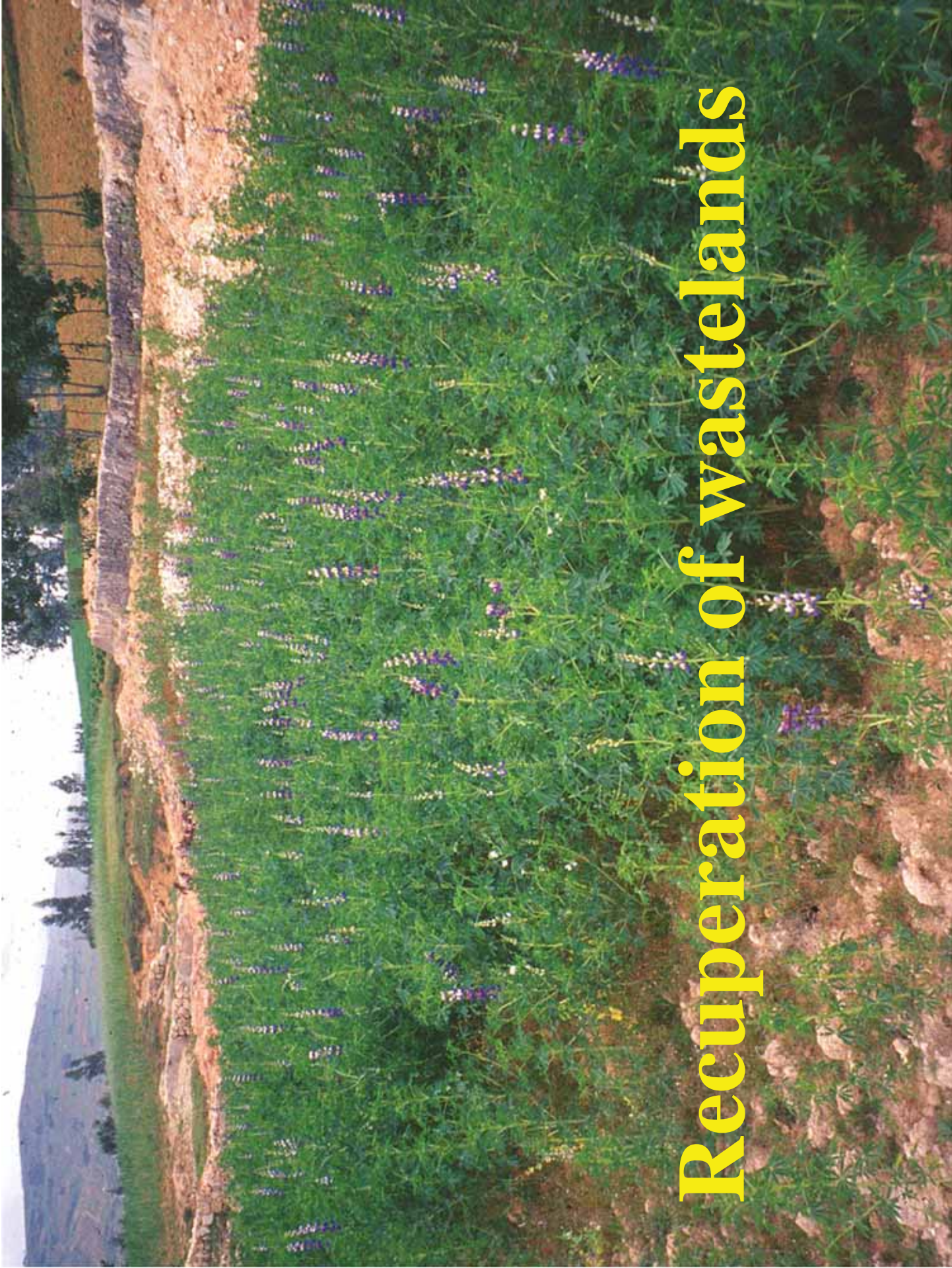




**Incredible
nitrogen
fixation**



Provision of high-protein food

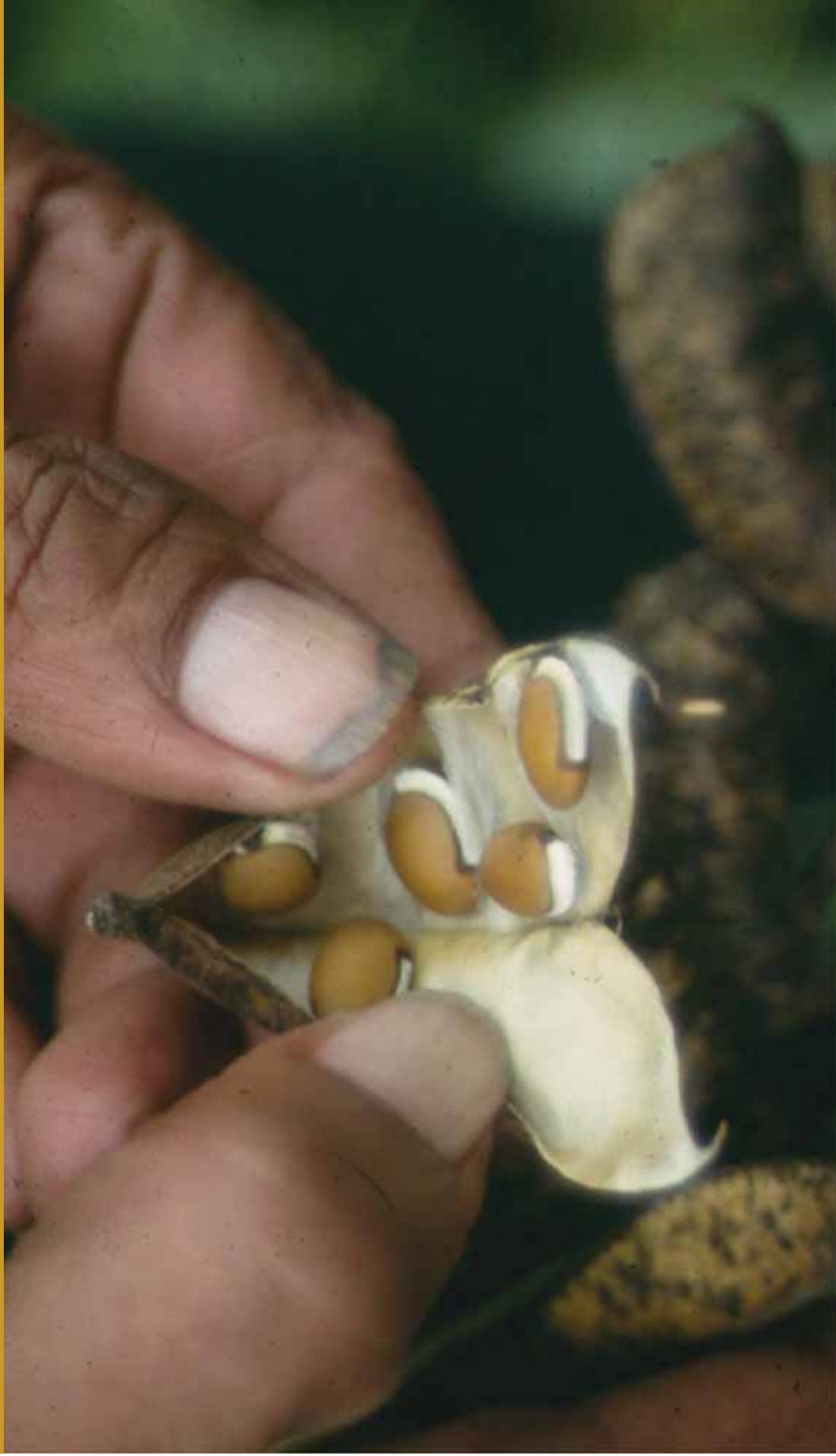


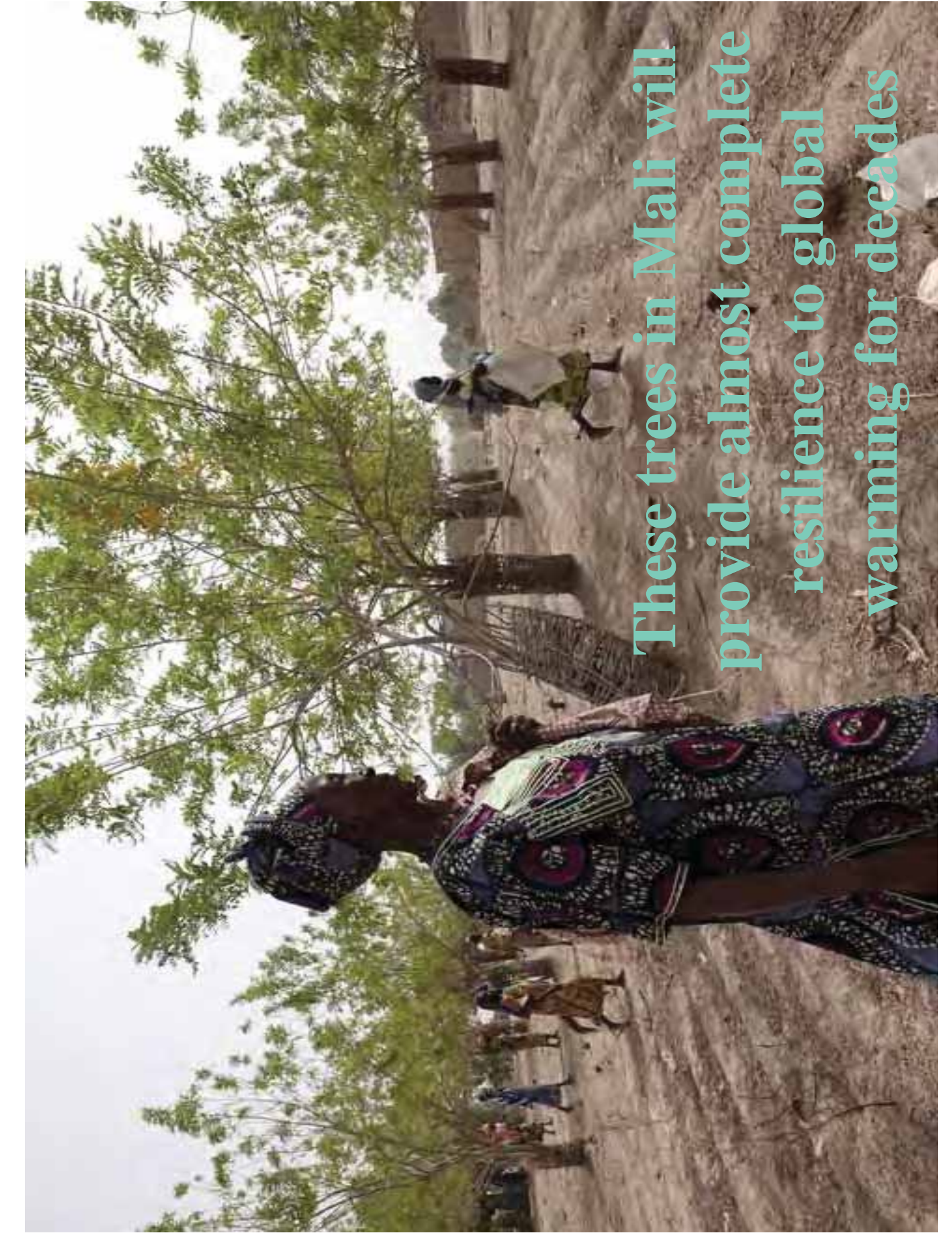
Recuperation of wastelands

**Soil from a
humid
tropical
hillside after
growing
maize and
velvetbeans
every year
for 40 years**



Lablab beans (Dolichos lablab) are eaten like peas or as a dry bean.





**These trees in Mali will
provide almost complete
resilience to global
warming for decades**